ABSTRACT



Digital transmission method of the error-correcting coding type

The present invention concerns a digital transmission method of the errorcorrecting coding type which comprises, before a step of transmitting on a channel, a coding procedure comprising at least one puncturing step, and, after said transmission step, a decoding procedure comprising at least one depuncturing step, said coding procedure, applying a given coding scheme, generating a coded information item representing, with a certain redundancy, said useful information item and said decoding procedure estimating said useful information item by correcting transmission errors. According to the invention, this digital transmission method also comprises a step of observing the transmission conditions and a puncturing scheme selection step (2) for selecting, according to said at least one parameter, an optimum performance puncturing scheme amongst a plurality of predetermined puncturing schemes, the overall efficiency of said coding step and said puncturing step being a constant efficiency. The/method also comprises a coding scheme adaptation step (3) which checks whether/said puncturing scheme selected by said puncturing scheme selection step (2) leads to the full puncturing of at least one output information item of a coding step, amongst a plurality of coding steps whose association in parallel forms said coding scheme, and which, if applicable, modifies said coding scheme so that said coding step is no longer used.

Fig.